

Form PTO-1449 U.S. Department of Commerce

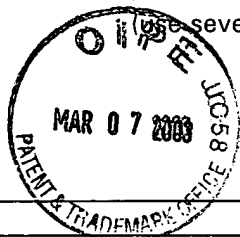
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.  
ENZ-53(D5)

Serial No. 08/978,637

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Applicants: Elazar Rabbani et al.,

Filed: November 25,  
1997

Group: 1635

MAR 13 2003

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
WMS	5 1 6 6 3 2 0	11/24/92	Wu, G.Y.			
WMS	4 6 8 7 7 3 2	8/18/87	Ward, D.C.			
WMS	5 2 6 0 4 3 3	11/9/93	Engelhardt, D.			
WMS	4 7 1 1 9 5 5	12/8/87	Ward D.C.			
WMS	5 2 4 1 0 6 0	8/31/93	Engelhardt D.			
WMS	4 7 0 7 4 4 0	11/17/87	Stavrianopoulos J.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO
WMS	EP 0 2 8 5 0 5 7B 1	3/1/05	EP			
WMS	WO 9 5 2 6 2 0 0	10/5/95	WO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WMS	Schwartz, D.A. et al., <u>Gene</u> 127:233-236 (1993)
WMS	Dunn J.J. et al., <u>Gene</u> 68:259-266 (1988)
WMS	Fuerst, T.R. et al., <u>Proc. Nat Acad. Sci. U.S.A.</u> 83: 8122-8126 (1986)
WMS	Lieber. A. et al., <u>Nucleic Acids Research</u> 17(21): 8485-8493 (1989)
WMS	Lieber, A. et al., <u>Methods in Enzymology</u> 217:47-67 (1993)

EXAMINER

WMS

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3/22/03

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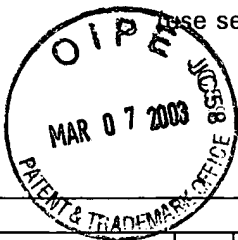
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WMS	Davenloo, P. et al., <u>Proc. Nat. Acad. Sci. U.S.A.</u> 81: 2035-2039 (1984)
WMS	Morris, C.E. et al., <u>Gene</u> 41:193-200 (1986)
WMS	Kotani, H. et al., <u>Nucleic Acids Research</u> 15(6):2653-2664 (1987)
WMS	Dubendorff, J.W. and Studier, F.W., <u>Journal of Molecular Biology</u> 219: 61-68 (1991)
WMS	Dahlberg, J.E. and Lund, E., "The Genes and Transcription of the Major Small Nuclear RNAs," in <u>Structure and Function of Major and Minor Small Nuclear Ribonucleoprotein Particles</u> , Birnstiel, M. Ed., Springer Verlag, Berlin, Heidelberg, NY, London, Paris, Tokyo, pp. 38-70 (1988)
WMS	Zieve, G.W. and Sautereau, R.A., <u>Biochemistry and Molecular Biology</u> 25(1):1-46 (1990)

EXAMINER

WMS

DATE CONSIDERED

3/22/03

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<p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> <p><b>RECEIVED</b> MAR 13 2003 TECH CENTER 1600/2900</p>		Applicants: Elazar Rabbani et al.	
		Filed: 11/25/971995	Group: 1635

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
MMS	4 8 4 3 1 2 2	6/27/89	Stavrianopoulos			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

MMS	Izant, J.G. and Sardelli, A.D., "Antisense Inhibition of RNA Splicing," in <u>Current Communications in Molecular Biology, Antisense RNA and DNA</u> , Melton, D.A., Ed., Cold Spring Harbor Laboratory, pp. 141-149 (1988)
MMS	You, C-Y and Weiner, A.M., <u>Molecular and Cellular Biology</u> 9(8):3429-3437 (1989)
MMS	Chen, C.J. et al., "Inhibition of HIV-1 Replication by Novel Multitarget Ribozymes," <u>Antisense Strategies, Annals of the New York Academy of Sciences</u> 660:271-273 (1992)
MMS	Zhou Z. et al., <u>Gene</u> 149:33-39 (1994)
MMS	Lisiewicz, J. et al., <u>Proc. Natl. Acad. Sci. USA</u> 90:8000-8004 (1993)
MMS	Husson, R.N. et al., <u>The Journal of Pediatrics</u> 121(4):621-633 (1992)
MMS	Yu, M. et al., <u>Gene Therapy</u> 1:13-16 (1994)
MMS	Sczakiel, G. et al., <u>Journal of Virology</u> 66(9):5576-5581 (1992)

EXAMINER	<i>M. Schmidt</i>	DATE CONSIDERED	3/22/03
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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mas	Szczakiel, G. and Pawlita, M., <u>Journal of Virology</u> 65(1):468-472 (1991)
mas	Cotton, M. and Birnstiel, M.L., <u>The EMBO Journal</u> 8(12):3861-3866 (1989)
mas	Nichols, R. et al., <u>Nature</u> 369:492-493 (1994)
mas	Eritja, R. et al., <u>Nucleic Acids Research</u> 14(20):8135-8153 (1986)
mas	Lever, A.M.L., <u>British Medical Bulletin</u> 51(1):149-166 (1995)
mas	Wu, C.H. et al., <u>The Journal of Biological Chemistry</u> 264(29):16985-16987 (1989)
mas	Wagner, E. et al., <u>Proc. Natl. Acad. Sci. USA</u> 89:6099-6103 (1992)
mas	Ruoslahti, E. et al., <u>The Journal of Biological Chemistry</u> 256(14):7277-7281 (1981)

EXAMINER	<i>M. Schmitt</i>	DATE CONSIDERED	3/22/03
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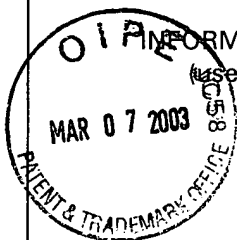
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mas	Cristiano, R.J. et al., <u>Proc. Natl. Acad. Sci. USA</u> 90:2122-2126 (1993)
mas	Curiel, D.T. et al. <u>Proc. Natl. Acad. Sci. USA</u> 88:8850-8854 (1991)
mas	Wagner, E. et al., <u>Proc. Natl. Acad. Sci. USA</u> 89:7934-7938 (1992)
mas	Argos, P. et al., <u>The EMBO Journal</u> 5(2):433-440 (1986)
mas	Kessler, C., "Detection of Nucleic Acids by Enzyme-Linked Immuno-Sorbent Assay (ELISA) Technique: An Example for the Development of a Novel Nonradioactive Labeling and Detection System With High Sensitivity," in <u>Advances in Mutagenesis Research</u> 1, Obe, G. Ed., Springer Verlag, Berlin, 105-152 (1990)
mas	Rigby, P.W. et al., <u>Journal of Molecular Biology</u> 113:237-251 (1977)
mas	Saiki, R. et al., <u>Science</u> 239:487-491 (1985)
mas	Melton, D.A. et al., <u>Nucleic Acids Research</u> 12(18):7035-7056 (1984)

EXAMINER

M. Schmidt

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3/22/03

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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS- LATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WMS	Roychoudhury, R. et al., <u>Nucleic Acids Research</u> 6(4):1323-1333 (1979)
WMS	Cook, A.F. et al., <u>Nucleic Acids Research</u> 16(9):4077-4095 (1988)
WMS	Agrawal, S. et al., <u>Nucleic Acids Research</u> 14(15):6227-6245 (1986)
WMS	Jablonski, E. et al., <u>Nucleic Acids Research</u> 14(15):6115-6128 (1986)
WMS	Staerz, U.D. and Bevan, M.J., <u>Proc. Natl. Acad. Sci. USA</u> 83:1453-1457 (1986)
WMS	Fanger, M.W., <u>Critical Reviews in Immunology</u> 12(3,4):101-124 (1992)
WMS	Gruber, M. et al., <u>Journal of Immunology</u> 152:5368-5372 (1994)
WMS	Holliger, P. et al., <u>Proc. Natl. Acad. Sci. USA</u> 90:6444-6448 (1993)

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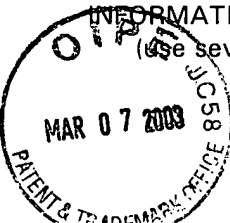
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ums	Anderson, W.F. et al., <u>Nature</u> 290:754-758 (1981)
ums	Palsson, B.O. et al., <u>Biotechnology</u> 11:372368 (1993)
ums	Koller, M.R., et al., <u>BioTechnology</u> 11:358-363 (1993)
ums	Koller M.R. et al., <u>Blood</u> 82(2):378-384 (1993)
ums	Mount, S.M., <u>Nucleic Acids Research</u> 10(2):472 (1982)
ums	Mayeda, A. and Oshima, Y., <u>Nucleic Acids Research</u> 18(16):4676 (1990)
ums	Chu, F.K. et al., <u>Proc. Natl. Acad. Sci. USA</u> 81:3049-3053 (1984)
ums	Chu F.K. et al., <u>The Journal of Biological Chemistry</u> 260(19):10680-10688 (1985)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mmS	Muzyczka, N., <u>Current Topics in Microbiology and Immunology</u> 158:97-129 (1992)
mmS	Rafestin, M.E. et al., <u>FEBS Letters</u> 40(1):62-66 (1974)
mmS	Lear, J.D. and DeGrado, W.F., <u>The Journal of Biological Chemistry</u> 262(14):6500-6505 (1987)
mmS	Kalderon D. et al., <u>Cell</u> 39:499-509 (1984)
mmS	Stavrianopoulos J.G. et al., <u>Proc. Nat. Acad. Sci. USA</u> 69(9):2609-2613 (1972)

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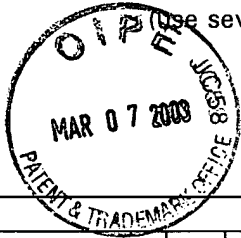
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WMS	Nitta, T. et al., <u>Eur J. Immunol.</u> 19:1437-1441 (1989)
WMS	Horton, R.M. et al., <u>BioTechniques</u> 8(5):528-535 (1990)
WMS	Horton, R.M. et al., <u>Gene</u> 77:61-68 (1989)
WMS	Scharf, S.J. et al., <u>Science</u> 233:1076-1078 (1986)
WMS	Saiki, R.K., et al., <u>Science</u> 230:1350-1354 (1985)
WMS	Kozak, M., <u>Cell</u> 44:283-292 (1984)

EXAMINER

WMS Schuchert

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mmS	Joshi, S. et al., <u>Journal of Virology</u> 65(10):5524-5530 (1991)
mmS	Sczakiel, G. et al., <u>Biochemical and Biophysical Research Communication</u> 169(2):643-651 (1990)
mmS	Dunn, J.J. and Studier, F.W., <u>J. Mol. Biol.</u> 166:477-535 (1983)
mmS	Sandig V. et al., <u>Gene</u> 131:255-259 (1993)
mmS	Harrison G.S. et al., <u>Human Gene Therapy</u> 3:461-469 (1992)
mmS	Manser, T. and Gesteland, R.F., <u>Cell</u> 29:257-264 (1982)
mmS	McBurney M.W. et al., <u>Nucleic Acids Research</u> 19(20):5755-5761 (1991)
mmS	Laurence, J. et al., <u>The Journal of Virology</u> 65(1):213-219 (1991)
mmS	Soeiro, R. and Darnell, J.E., <u>J. Mol Biol</u> 44:551-562 (1969)

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